ABSTRACT OF THE DISCLOSURE

Initialization processes of link layers in a data transmission system are started after initialization processes of respective physical layers are completed. Thus, at the time of initialization of the link layers, the respective physical layers can perform communication with each other. As a result, in the data transmission system in which electrical communication is performed, an initialization program (an API which is supplied assuming that physical layers requiring no initialization process are used) designed assuming that physical layers are in a state where they can perform communication during an initialization period of link layers can be used while satisfying the above assumption.